REPORT DOCUMENTATION PAGE

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CHEMICAL OCEANOGRAPHY

TILTON SCHOOL TILTON, NH AUG 12 - 17, 2001

Steven Emerson, Chair Dave DeMaster, Vice-Chair

Sunday PM

Ocean Chemistry, Dynamics and Climate

Session Chair: Scott Doney, National Center for Atmospheric Research, Bolder, CO

- Nicolas Gruber, University of California, Los Angeles, CA
 "The influence of NAO on the carbon cycle in the North Atlantic Ocean"
- Richard Matear, CSIRO, Hobart, Australia
 "Changes in ocean biogeochemistry caused by protracted global warming"

Monday AM

Rapid Climate Change

Session Chair: Thomas Stocker, University of Bern, Bern, Switzerland

- Richard Alley, Penn State University, University Park, PA "Causes of abrupt climate changes: insights from timing"
- Olivier Marchal, University of Bern, Bern, Switzerland
 "Atmospheric radiocarbon during the Younger Dryas: Production, ventilation, or both"
- Paul Baker, Duke University, Durham, NC
 "Climatic variability of tropical South America at annual to orbital time scales"

Monday PM

Chemical Proxies of Past Climate Change

Session Chair: Adina Paytan, Stanford University, Stanford, CA

- Howard Spero, University of California, Davis, CA
 "Carbon isotopes and the marine record: from enigma to maturity"
- Mark Pagani, Colorado State University, Fort Collins, CO
 "An examination of the boron isotope proxy"

Tuesday AM

The Nitrogen Cycle

Session Chair: Bess Ward, Princeton University, Princeton, NJ

- Daniel Sigman and Karen Casciotti, Princeton University, Princeton, NJ
 "Coupled measurements of nitrogen and oxygen isotopes in oceanic nitrate: A new tool for the study of the marine nitrogen cycle"
- Bess Ward, Princeton University, Princeton, NJ
 "Functional diversity in microbially mediated nitrogen cycling"
- Stefan Hulth, University of Goteborg, Goteborg, Sweden
 "Nitrogen transformations in marine sedimentary environments alternative pathways of anoxic oxidations"

Tuesday PM

Sediment Geochemistry

Session Chair: Robert Anderson, Lamont-Doherty Earth Observatory, Palisades, NY

. Derek Lovley, University of Massachusetts, Amherst, MA "Novel microbially catalyzed redox reactions in marine sediments"

Philip Froelich, Georgia Institute of Technology "Reverse weathering, authigenic aluminosilicate formation and early silica diagenesis in marine sediments"

Wednesday AM

Gas Hydrates

Session Chair: Erwin Suess, GEOMAR, Kiel, Germany

 Gregor Rehder, Monterey Bay Aquarium Research Institute, Moss Landing, CA "Experimental tests of mechanisms for rapid transfer of methane from the sea floor to the atmosphere"

Mariam Kastner, Scripps Institution of Oceanography, La Jolla, CA "Environmental implications of methane venting across the sediment-water interface: Results of a one year in situ experiment at Hydrate Ridge, Cascadia"

 Matthias Haeckel , GEOMAR, Keil, Germany "Gas hydrate dynamics in surface sediments of Hydrate Ridge: Geochemistry, isotopes, biomarker and modeling studies"

Wednesday PM

Molecular Organic Chemistry

Session Chair: Tim Eglinton, Woods Hole Oceanographic Institution, Woods Hole MA

• Dan Repeta, Woods Hole Oceanographic Institution, Woods Hole, MA "New concepts on the composition and cycling of dissolved organic matter in seawater"

 Stefan Schouten, Netherlands Institute for Sea Research, den Burg, The Netherlands "Molecular isotope biogeochemistry: applications in determining processes in contemporary and past oceans"

Thursday AM

Inorganic Chemistry - Metals

Session Chair: James Moffett, Woods Hole Institution of Oceanography, Woods Hole, MA

• Edward Boyle, Massachussetts Institute of Technology, Cambridge, MA "New insights into iron geochemistry through high resolution automated sampling and ICP-MS analytical methods"

Katherine Barbeau, University of California, Santa Barbara, CA "Photochemical cycling of iron in the surface ocean mediated by iron (III)-siderophore complexes: mechanistic insights from molecular structure"

Ariel Anbar, University of Rochester, NY "Metal isotope fractionation in chemical oceanography: Promise and progress"

Thursday PM

Remote Measurements

Session Chair: Ken Johnson, Monterey Bay Aquarium Research Institute, Moss Landing, CA

Charlie Eriksen, University of Washington, Seattle, WA "Gliders: Platforms for biogeochemical measurements"

Ken Smith, Scripps Institute of Oceanography, CA "Benthic Rovers as platforms for biogeochemical measurements"

















CHEMICAL OCEANOGRAPHY

TILTON SCHOOL (12-Aug-01) - (17-Aug-01)

NOTE: Receipt of Application does not guarantee acceptance to a Conference. Applications are reviewed by the Conference Chair. If the Chair approves your application, you become Accepted, and a registration packet will be mailed immediately. Please allow 3-5 days for your registration to reach you by mail once your name appears. When your registration packet has been received back in our office, you become

Only those who have been Accepted or Registered will have their names listed below. Names of people who have only applied and have yet to be accepted will NOT appear.

Name	Organization	Participation	Status
JEFFREY T ABELL	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
ROBERT C ALLER	MARINE SCIENCES RESEARCH CENTER	Attendee	Registered
RICHARD ALLEY	PENN STATE UNIVERSITY	Speaker	Registered
LIHINI ALUWIHARE	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Attendee	Registered
ARIEL D ANBAR	UNIVERSITY OF ROCHESTER	Speaker	Registered
ROBERT F ANDERSON	LAMONT-DOHERTY EARTH OBSERVATORY	Discussion Leader	Registered
	UNIVERSITE BORDEAUX 1	Poster Presenter	Registered
PIERRE ANSCHUTZ DAVID E ARCHER	UNIVERSITY OF CHICAGO	Poster Presenter	Registered
	DUKE UNIVERISTY	Speaker	Registered
PAUL BAKER	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Speaker	Registered
KATHY A BARBEAU	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
WILLIAM M BERELSON	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Speaker	Registered
EDWARD A BOYLE	OLD DOMINION UNIVERSITY	Poster Presenter	Registered
DAVID J BURDIGE	PRINCETON UNIVERSITY	Poster Presenter	Registered
KAREN L CASCIOTTI	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Attendee	Registered
CHRISTOPHER D CHARLES	BIGELOW LABORATORY	Poster Presenter	Registered
JOHN P CHRISTENSEN	COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE	Poster Presenter	Registered
THOMAS M CHURCH	MIDDLE EAST TECHNICAL UNIVERSITY	Attendee	Registered
YESIM COBAN-YILDIZ	UNIVERSITY OF SOUTH FLORIDA	Poster Presenter	Registered
PAULA G COBLE	NETHERLANDS INSTITUTE FOR SEA RESEARCH	Poster Presenter	Registered
PETER L CROOT		Attendee	Registered
GREGORY A CUTTER	OLD DOMINION UNIVERSITY NORTH CAROLINA STATE UNIVERSITY	Vice Chair	Registered
DAVID J DEMASTER		Poster Presenter	Registered
SUVASIS DIXIT	GEORGIA INSTITUTE OF TECHNOLOGY NATIONAL CENTER FOR ATMOSPHERIC RESEARCH	Speaker	Registered
SCOTT DONEY		Poster Presenter	Registered
JOHN P DUNNE	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
MEAGAN J EAGLE	STANFORD UNIVERSITY	Discussion Leader	Registered
TIMOTHY I EGLINTON	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Chair	Registered
STEVEN EMERSON	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
PIA ENGSTROM	UNIVERSITY OF GOTENBURG	Speaker	Registered
CHARLIE ERIKSEN	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
KRISTINA L FAUL	STANFORD UNIVERSITY	Speaker	Registered
PHILIP N FROELICH	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
BRIAN T GLAZER	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
RALF GOERICKE	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Poster Presenter	Registered
MELCHOR GONZALEZ-DAVILA	UNIVERSIDAD DE LAS PALMAS DE GRAN CANA	Speaker	Registered
NICHOLAS GRUBER	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Poster Presenter	Registered
THOMAS P GUILDERSON	CENTER FOR AMS		Registered
MATTHIAS HAECKEL	GEOMAR RESEARCH CENTER FOR MARINE GEOSCIENCES	Speaker	Registered
ROBERTA C HAMME	UNIVERSITY OF WASHINGTON	Poster Presenter Poster Presenter	Registered
VANESSA HATJE	THE UNIVERSITY OF SYDNEY		Registered
KONRAD A HUGHEN	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
STEFAN HULTH	UNIVERSITY OF GOTEBORG	Speaker	Registered
CHIN-CHANG HUNG	TEXAS A&M UNIVERSITY AT GALVESTON	Poster Presenter	-
ELLERY D INGALL	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
ANITRA E INGALLS	SUNY AT STONY BROOK	Poster Presenter	Registered

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ADINA PAYTAN TSUNG-HUNG PENG NOAA, ATLANTIC MICHAEL E Q PILSON BRIAN N POPP UNIVERSITY OF HAWAII ARTHIMPOUR-BONAB HARUNUR RASHID GREGOR J REHIDER CLARE E REIMERS ON ORGON STATE UNIVERSITY DANIEL REPETA MODIAL RICE MATTHEW K REUER DONALD L RICE MASAIO POSTER SANTSCHI GERGOR J SANTANA-CASIANO PETER SANTSCHI MAGDALENA J SANTANA-CASIANO PETER SANTSCHI DERNO SCHNEIDER BRIAN SCHOUTEN DANIEL M SIGMAN PRINCETON UNIVERSITY DANIEL M SIGMAN PRINCETON UNIVERSITY POSTER Presenter MODIAL DL RICE MODIAL DL RICE MATTHEW K REUER DONALD L RICE MATTHEW K REUER MIT DONALD L RICE MATTHEW K REUER MIT DONALD L RICE MATTHEW CHAPACHY OF THE MATTHEW CHAPACHY POULOMI SANNIGRAHI GEORGIA INSTITUTE OF TECHNOLOGY POSTER PRESENTER MAGDALENA J SANTANA-CASIANO PETER SANTSCHI TEXAS A&M UNIVERSITY JAP SINNINGHE-DAMSTE KEND SCHNEIDER BALTIC SEA RESEARCH INSTITUTE STEFAN SCHOUTEN DANIEL M SIGMAN PRINCETON UNIVERSITY JAAP SINNINGHE-DAMSTE KEND SCHNEIDER MEALTIC SCA RESEARCH INSTITUTE VOOR ONDERZOEK DER ZEE KEN SMITH UNIVERSITY OF CALIFORNIA, DAVIS SPEAKE KEN SMITH UNIVERSITY OF CALIFORNIA, DAVIS SPEAKE REGISTERED HOWARD SPERO UNIVERSITY OF GEORGIA MACHILE W SIGNAS UNIVERSITY OF GEORGIA MACHILE W SIGNAS UNIVERSITY OF GEORGIA MACHILE W SIGNAS M PRINCETON UNIVERSITY JAAP SINNINGHE-DAMSTE KEN SMITH UNIVERSITY OF CALIFORNIA, DAVIS SPEAKE KEN SMITH UNIVERSITY OF GEORGIA MACHILE W SIGNAS UNIVERSITY OF GEORGIA MACHILE W SIGNAS M CHAPTHERLANDS INSTITUTE VOOR ONDERZOEK DER ZEE SPEAKE HOWARD SPERO UNIVERSITY OF GEORGIA MACHILE W SIGNAS PERSON SCHOLER MINGHEDAMSE GEOMAR MICHAEL W SIGNAS PERSON SCHOLER MING-STEP OF CALIFORNIA, DAVIS SPEAKER REGISTERE R		UNIVERSITY OF CONCEPCION	Poster Presenter	Registered
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MICHAEL W WARA **BESS B WARD** JOAN D WILLEY **GISELA WINCKLER ULRICH G WORTMANN** JIA-ZHONG ZHANG

UNIVERSITY OF CALIFORNIA, SANTA CRUZ PRINCETON UNIVERSITY UNIVERSITY OF NORTH CAROLINA AT WILMINGTON LAMONT-DOHERTY EARTH OBSERVATORY ETH-ZURICH CIMAS/RSMAS/UNIVERSITY OF MIAMI

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